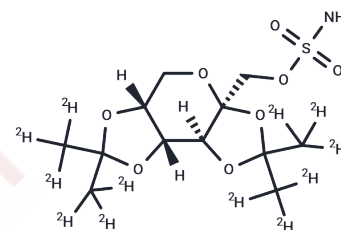


Topiramate-D12

Chemical Properties

CAS No. :	1279037-95-4
Formula:	C ₁₂ H ₂₁ N ₀ O ₈ S
Molecular Weight:	351.44
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Topiramate-D12 is a deuterium labeled Topiramate. Topiramate (T0675) is an agent of broad-spectrum antiepileptic. Topiramate (T0675) is an antagonist of GluR5 receptor.
Targets(IC50)	Calcium Channel,GABA Receptor,Carbonic Anhydrase,iGluR,Potassium Channel,Sodium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8454 mL	14.2272 mL	28.4544 mL
5 mM	0.5691 mL	2.8454 mL	5.6909 mL
10 mM	0.2845 mL	1.4227 mL	2.8454 mL
50 mM	0.0569 mL	0.2845 mL	0.5691 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Kaminski RM, et al. Topiramate selectively protects against seizures induced by ATPA, a GluR5 kainate receptor agonist. *Neuropharmacology*. 2004 Jun;46(8):1097-104.
- Lyseng-Williamson KA, et al. Topiramate: a review of its use in the treatment of epilepsy. *Drugs*. 2007;67(15):2231-56.
- Nakamura J, et al. Target pharmacology of topiramate, a new antiepileptic drug. *Nihon Yakurigaku Zasshi*. 2000 Jan;115(1):53-7.

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